Quizz 2 - 00P

Full name

Q1 - Describe this code line-by-line.

```
first_name = ["Pierre", "Paul", "Jacques"].sample
last_name = "Paillard"
puts "Great! #{first_name} #{last_name} is born"
```

```
1.
2.
3.
```

Q2 - What's initialize? When is it called and what's its purpose?

Q3 - Consider this code. What's the difference between string and string?

```
1 string = String.new("Hello World")
```

Q4 - What does this method do?

```
1 def mystery_method(pets)
2  mammal_pets = []
3  for pet in pets
4  mammal_pets << pet if pet.mammal?
5  end
6  return mammal_pets
7 end</pre>
```

Q5 - Re-implement previous method <code>mystery_method</code> using a nice <code>iterator</code> instead.

```
pets = [ MysteryObject.new("mouse"), MysteryObject.new("hummingbird") ]

pets = [ MysteryObject.new("mouse"), MysteryObject.new("hummingbird") ]

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```

Q6 - Write an Animal class that could be use in place of the MysteryObject at Q5. Implement a mammal? instance method that would work with the code at Q4.

```
1 class
2
3
4
5
6
```

Q7 - Write a class Dog which inherits from Animal. How mammal? should be overriden?

```
1 class
2
3
4
5
```

Q8 - Consider this code

```
1 class Fish
2 def self.overview()
3 return "Fishes can live in the sea"
4 end
5 def swim
6 # I'm swimming
7 end
8 end
```

Please, write some code calling both methods overview and swim.

```
1 # TODO: use overview and swim
2
3
```

Q9 - Let's define 2 classes, Liquid and Alcohol.

```
1 class Liquid
2
   def drink
3
     puts "You drank some liquid"
4 end
5
   def evaporate
6
     puts "There is no more liquid"
7
   end
8 end
9
10 class Alcohol < Liquid
   def drink
11
    puts "You are now drunk"
12
13
   end
14 end
```

```
beer = Alcohol.new
beer.drink
beer.evaporate
```

```
2.
3.
```

```
1 class Liquid
2
    def drink
3
     puts "You drank some liquid"
4 end
5
   def evaporate
6
     puts "There is no more liquid"
7
    end
8 end
9
10 class Alcohol < Liquid
11
   def drink
12
      super
13
     puts "You are now drunk"
     end
14
15 end
```

Same question with this new drink method. What is printed on line 2 and 3.

```
beer = Alcohol.new
beer.drink
beer.evaporate
```

```
2.
3.
```